This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-27. (Withdrawn)

28-34. (Canceled)

35-77. (Withdrawn)

78. (Currently Amended) A method of producing a CICM cell line, comprising:

(i) inserting a desired mammalian somatic cell or mammalian somatic cell nucleus into an enucleated mammalian oocyte of the same species as the somatic cell or cell nucleus, under conditions suitable for the formation of a nuclear transfer (NT) unit;

(ii) activating the resultant nuclear transfer unit;

(iii) culturing said activated nuclear transfer ~~unite~~ unit until greater than the 2-cell developmental ~~state~~ stage and no greater than the 400-cell developmental stage; and

(iv) culturing cells obtained from said cultured NT ~~united~~ unit to obtain a CICM cell line which is cultured under conditions that maintain said CICM cell line in an undifferentiated state.

79. (Previously Presented) The method of claim 78, wherein said culturing step (iv) comprises culturing said cells on a feeder layer.

80. (Previously Presented) The method of claim 79, wherein said feeder layer is a fibroblast feeder layer.

81. (Previously Presented) The method of claim 78, wherein said somatic cell is transgenic.

82. (Currently Amended) The method of claim 81, wherein said somatic cell or somatic cell nucleus is human.

83. (Currently Amended) The method of claim 82, wherein said somatic cell or somatic cell nucleus is transgenic.

84. (Previously Presented) A method according to claim 83, wherein said CICM cell line is a human CICM cell line.

85. (Currently amended) ~~The~~ A method of producing hematopoietic cells comprising inducing ~~said~~ the undifferentiated CICM cells of claim 78 into hematopoietic cells.

86. (Currently amended) ~~The~~ A method of producing neural cells comprising inducing ~~said~~ the undifferentiated CICM cells of claim 78 into neural cells.

87. (Canceled)

88. (Previously Presented) The method of claim 78, which further comprises inducing said CICM cell line of (iv) differentiation by said CICM cell line under conditions that permit differentiation.

89. (Previously Presented) The method of claim 78, wherein said CICM cell line is transgenic.

90. (New) A method of producing a CICM cell line, comprising:

(i) inserting a desired mammalian somatic cell or mammalian somatic cell nucleus into an enucleated mammalian oocyte of the same species as the somatic cell or cell nucleus, under conditions suitable for the formation of a nuclear transfer (NT) unit;

(ii) activating the resultant nuclear transfer unit;

(iii) culturing said activated nuclear transfer unit until greater than the 2-cell developmental stage and no greater than the 400-cell developmental stage; and

(iv) culturing cells obtained from said cultured NT unit to obtain a CICM cell line which is cultured on a feeder layer to maintain said CICM cell line in an undifferentiated state.

91. (New) The method of claim 90, wherein said feeder layer is a fibroblast feeder layer.

92. (New) The method of claim 90, wherein said somatic cell is transgenic.

93. (New) The method of claim 90, wherein said somatic cell nucleus is transgenic.

94. (New) A method according to claim 90, wherein said CICM cell line is a human CICM cell line.

95. (New) A method of producing hematopoietic cells comprising inducing the undifferentiated CICM cells of claim 90 into hematopoietic cells.

96. (New) A method of producing neural cells comprising inducing the undifferentiated CICM cells of claim 90 into neural cells.

97. (New) The method of claim 90, which further comprises inducing said CICM cell line of (iv) differentiation by said CICM cell line under conditions that permit differentiation.

98. (New) The method of claim 90, wherein said CICM cell line is transgenic.

99. (New) A method of producing a CICM cell line, comprising:

(i) inserting a desired mammalian somatic cell or mammalian somatic cell nucleus into an enucleated mammalian oocyte of the same species as the somatic cell or cell nucleus, under conditions suitable for the formation of a nuclear transfer (NT) unit;

(ii) activating the resultant nuclear transfer unit;

(iii) culturing said activated nuclear transfer unit until greater than the 2-cell developmental stage and no greater than the 400-cell developmental stage; and

(iv) culturing cells obtained from said cultured NT unit to obtain a CICM cell line which is cultured in the presence of cytokines to maintain said CICM cell line in an undifferentiated state.

100. (New) The method of claim 99, wherein said somatic cell is transgenic.

101. (New) The method of claim 99, wherein said somatic cell nucleus is transgenic.

102. (New) A method according to claim 99, wherein said CICM cell line is a human CICM cell line.

103. (New) A method of producing hematopoietic cells comprising inducing the undifferentiated CICM cells of claim 99 into hematopoietic cells.

104. (New) A method of producing neural cells comprising inducing the undifferentiated CICM cells of claim 99 into neural cells.

105. (New) The method of claim 99, which further comprises inducing said CICM cell line of (iv) differentiation by said CICM cell line under conditions that permit differentiation.

106. (New) The method of claim 99, wherein said CICM cell line is transgenic.